

5.1b Estimating With Finite Sums

Ex 4 cardiac output

cardiac output = mg dye / area under curve

p268

time	dye
5	0
9	3.8
13	6.1
15	3.6

dye concentration

mg/L

time sec

last

first

5.6 mg (given)

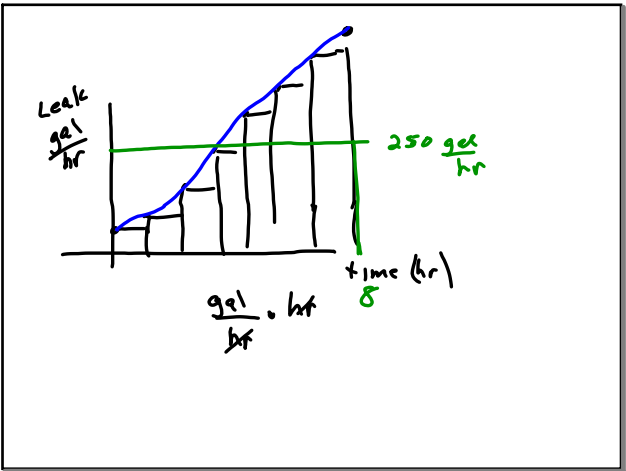
$55.1 \frac{\text{mg}}{\text{L}} \cdot \text{sec} = .102 \frac{\text{L}}{\text{sec}}$

$.102 \frac{\text{L}}{\text{sec}} \cdot 60 \frac{\text{sec}}{\text{min}} = 6.09 \frac{\text{L}}{\text{min}}$

$\text{Ram} = [\text{sum}(\text{dye}) - 0] \cdot 2 = 55.1 \frac{\text{mg}}{\text{L}} \cdot \text{sec}$

$\text{ram} = [\text{sum}(\text{dye}) - 0] \cdot 2 = 55.1$

Nov 8-9:59 PM



Nov 1-10:08 AM